

IN THE CLAIMS:

Please amend claims 1, 11, 13-16, 19, and 21 as follows:

Cl 1 Sub 1
1. (Amended) A shelving system comprising:

a panel having a plurality of support structures;

at least one post configured to support the panel;

each support structure including a pair of opposing beam members having an upper end, a lower end, and an intermediate wall coupling the upper and lower ends, the upper ends defining a support surface of the panel;

wherein said upper and lower ends of opposing beam members define a plurality of orifices, and a terminal end of the upper end includes a downward projection configured to provide strength and rigidity to the panel; and

wherein the plurality of support structures include at least one inner support structure having a curved configuration and at least one outer support structure having a continuous height.

Cl 11 Sub 1
11. (Amended) A shelving system comprising:

a panel including a plurality of support structures;

a plurality of posts configured to support the panel;

each support structure having a height and including a set of alternating opposed cavities defined by a pair of side walls, an upper wall, and a lower wall;

wherein a first cavity is defined by the side walls and the upper wall, and a second cavity adjacent the first cavity is defined by the side walls and the lower wall; and

wherein the upper wall includes a first aperture, the lower wall includes a second aperture, and wherein said second aperture is larger than said first aperture to maximize the support surface and minimize weight and material without reducing flexural strength.

As
sub
13-1
cont'd

13. (Amended) The shelving system of Claim 11 wherein the panel includes three support structures disposed across the width of the panel.

14. (Amended) The shelving system of Claim 11 wherein the support structures have a constant height across the length of the panel.

15. (Amended) The shelving system of Claim 11 wherein the support structure height varies so that it has a reduced height near an outer portion and an increased height near an inner portion.

16. (Amended) A shelving system comprising:

at least one panel;

a plurality of posts configured to engage sockets in the panels to support the at least one panel;

wherein each panel includes:

a set of first support structures including a pair of side walls, an upper wall, and a lower wall defining alternating oppositely disposed cavities;

a set of second support structures including opposing beam members having an upper end, a lower end, and an intermediate wall coupling upper and lower ends;

wherein the first and second support structures are combined to provide particular strength and rigidity characteristics; and

wherein the set of first support structures are Z-shaped beams and the set of second support structures are box beams.

As
sub
19
cont'd

19. (Amended) The shelving system of Claim 16 wherein the height of the set of first support structures varies depending on its proximity to the ends of the support structures.

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summary

21. (Amended) The shelving system of Claim 16 wherein the support structures are spaced across the width of the panels, and the first set of support structures are located towards the outer portion of the panel and the second set of support structures are located toward the interior of the panel.

Please cancel claims 9, 10, 12, 17, and 18.